

## 2003 Hot-Mix Asphalt Paving Emissions (Tons/Year)

EIC 540-564-0400-0000

rp19b

| AB  | CON             | UPR      | SEST   | YREST            | TOG EF  | TOG tpy      | TOG using 0.04 |
|-----|-----------------|----------|--------|------------------|---------|--------------|----------------|
| GBV | ALPINE          | 0        | ARBG99 | 1991             | 0.8     | 0.1          | 0.0            |
| GBV | INYO            | 0        | ARBG99 | 1991             | 0.8     | 14.6         | 0.7            |
| GBV | MONO            | 0        | ARBG99 | 1991             | 0.8     | 4.9          | 0.2            |
| LC  | LAKE            | 0        | ARBG99 | 1991             | 0.8     | 11.1         | 0.6            |
| LT  | EL DORADO       | 0        | ARBG99 | 1991             | 0.8     | 7.4          | 0.4            |
| MC  | AMADOR          | 0        | ARBG99 | 1991             | 0.8     | 9.2          | 0.5            |
| MC  | CALAVERAS       | 0        | ARBG99 | 1991             | 0.8     | 10.3         | 0.5            |
| MC  | MARIPOSA        | 0        | ARBG99 | 1991             | 0.8     | 7.7          | 0.4            |
| MC  | NEVADA          | 0        | ARBG99 | 1991             | 0.8     | 16.8         | 0.8            |
| MC  | PLUMAS          | 0        | ARBG99 | 1991             | 0.8     | 5.3          | 0.3            |
| MC  | SIERRA          | 0        | ARBG99 | 1991             | 0.8     | 4.1          | 0.2            |
| MC  | TUOLUMNE        | 0        | ARBG99 | 1991             | 0.8     | 6.8          | 0.3            |
| MD  | SAN BERNARDINO  | 620109.1 | MOJG96 | 1992             | 0.8     | 248.1        | 12.4           |
| NC  | SONOMA          | 0        | ARBG99 | 1991             | 0.8     | 3.3          | 0.2            |
| NCC | MONTEREY        | 0        | ARBG99 | 1991             | 0.8     | 24.5         | 1.2            |
| NCC | SAN BENITO      | 0        | ARBG99 | 1991             | 0.8     | 5.3          | 0.3            |
| NCC | SANTA CRUZ      | 0        | ARBG99 | 1991             | 0.8     | 18.9         | 0.9            |
| NEP | LASSEN          | 0        | ARBG99 | 1991             | 0.8     | 11.5         | 0.6            |
| NEP | MODOC           | 0        | ARBG99 | 1991             | 0.8     | 10.6         | 0.5            |
| NEP | SISKIYOU        | 0        | ARBG99 | 1991             | 0.8     | 17.1         | 0.9            |
| SCC | SAN LUIS OBISPO | 0        | SLOG96 | 1991             | 0.8     | 7            | 0.4            |
| SS  | IMPERIAL        | 0        | ARBG99 | 1991             | 0.8     | 30.3         | 1.5            |
| SV  | COLUSA          | 0        | ARBG99 | 1991             | 0.8     | 7.5          | 0.4            |
| SV  | GLENN           | 0        | ARBG99 | 1991             | 0.8     | 8.7          | 0.4            |
| SV  | SHASTA          | 0        | SHAG96 | 1991             | 0.8     | 10.9         | 0.5            |
| SV  | TEHAMA          | 0        | TEHG96 | 1991             | 0.8     | 9.3          | 0.5            |
| SV  | YUBA            | 0        | ARBG99 | 1991             | 0.8     | 3.3          | 0.2            |
|     |                 |          |        | <b>Subtotal:</b> |         | <b>514.6</b> | <b>25.7</b>    |
| LT  | PLACER          | 0        |        |                  | 0       | 0            |                |
| MC  | EL DORADO       | 35543.5  | ARBG99 | 1991             | 0.04    | 0.7          |                |
| MC  | PLACER          | 2587.5   | ARBG99 | 1991             | 0.04    | 0.1          |                |
| MD  | KERN            | 0        | KERG96 | 1991             | 0.04    | 2.2          |                |
| MD  | LOS ANGELES     | 12682.2  | SCG96  | 1995             | 0.03996 | 0.1          |                |
| MD  | RIVERSIDE       | 266.1    | SCG98  | 1995             | 0.04    | 0            |                |
| MD  | RIVERSIDE       | 1729.6   | SCG96  | 1995             | 0       | 0            |                |
| NC  | DEL NORTE       | 0        | NCUG96 | 1991             | 0.04    | 2.1          |                |
| NC  | HUMBOLDT        | 0        | NCUG96 | 1991             | 0.04    | 4.5          |                |
| NC  | MENDOCINO       | 0        | NCUG96 | 1991             | 0.04    | 6.6          |                |
| NC  | TRINITY         | 0        | NCUG96 | 1991             | 0.04    | 0            |                |
| SC  | LOS ANGELES     | 261780.6 | SCG98  | 1995             | 0.04    | 4.9          |                |
| SC  | ORANGE          | 90898    | SCG98  | 1995             | 0.04    | 2            |                |
| SC  | RIVERSIDE       | 127993.9 | SCG98  | 1995             | 0.04    | 2.2          |                |
| SC  | SAN BERNARDINO  | 180323.7 | SCG98  | 1995             | 0.04    | 2.6          |                |
| SCC | SANTA BARBARA   | 208718.9 | SBG    | 2003             | 0.04    | 4.2          |                |
| SCC | VENTURA         | 48490.4  | VENG99 | 1995             | 0       | 1            |                |
| SD  | SAN DIEGO       | 0        | SDG96  | 1991             | 0.04    | 4.1          |                |
| SF  | ALAMEDA         | 31976    | BAU    | 2002             | 0.039   | 0.6          |                |
| SF  | CONTRA COSTA    | 30096    | BAU    | 2002             | 0.039   | 0.6          |                |
| SF  | MARIN           | 11286    | BAU    | 2002             | 0.039   | 0.2          |                |
| SF  | NAPA            | 7524     | BAU    | 2002             | 0.039   | 0.1          |                |
| SF  | SAN FRANCISCO   | 7524     | BAU    | 2002             | 0.039   | 0.1          |                |
| SF  | SAN MATEO       | 18810    | BAU    | 2002             | 0.039   | 0.4          |                |
| SF  | SANTA CLARA     | 45143    | BAU    | 2002             | 0.039   | 0.9          |                |

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| <b>AB</b> | <b>CON</b>  | <b>UPR</b> | <b>SEST</b> | <b>YREST</b>                       | <b>TOG EF</b> | <b>TOG tpy</b>         | <b>TOG using 0.04</b> |
|-----------|-------------|------------|-------------|------------------------------------|---------------|------------------------|-----------------------|
| SF        | SOLANO      | 13167      | BAU         | 2002                               | 0.039         | 0.3                    |                       |
| SF        | SONOMA      | 22572      | BAU         | 2002                               | 0.039         | 0.4                    |                       |
| SJV       | FRESNO      | 1326831.7  | SJUG96      | 1995                               | 0.04          | 26.9                   |                       |
| SJV       | KERN        | 972478.6   | SJUG96      | 1995                               | 0.04          | 19.7                   |                       |
| SJV       | KINGS       | 193182     | SJUG96      | 1995                               | 0.04          | 3.9                    |                       |
| SJV       | MADERA      | 145577.3   | SJUG96      | 1995                               | 0.04          | 2.8                    |                       |
| SJV       | MERCED      | 306059.3   | SJUG96      | 1995                               | 0.04          | 6.3                    |                       |
| SJV       | SAN JOAQUIN | 831469.4   | SJUG96      | 1995                               | 0.04          | 16.2                   |                       |
| SJV       | STANISLAUS  | 683480.2   | SJUG96      | 1995                               | 0.04          | 13.7                   |                       |
| SJV       | TULARE      | 529245.2   | SJUG96      | 1995                               | 0.04          | 10.9                   |                       |
| SS        | RIVERSIDE   | 24922.6    | SCG98       | 1995                               | 0             | 0.4                    |                       |
| SV        | BUTTE       | 0          | BUTG96      | 1991                               | 0.04          | 0.9                    |                       |
| SV        | PLACER      | 28462.5    | ARBG99      | 1991                               | 0.04          | 0.6                    |                       |
| SV        | SACRAMENTO  | 34739.5    | SACG96      | 1991                               | 0.04          | 0.7                    |                       |
| SV        | SOLANO      | 4689       | YSG96       | 1991                               | 0.04          | 0.1                    |                       |
| SV        | SUTTER      | 13175      | ARBG99      | 1991                               | 0.04          | 0.3                    |                       |
| SV        | YOLO        | 18095      | YSG96       | 1991                               | 0.04          | 0.4                    |                       |
|           |             |            |             | <b>Subtotal:</b>                   |               | <b>144.7</b>           |                       |
|           |             |            |             | <b>Total:</b>                      |               | <b>659.3 tons/year</b> |                       |
|           |             |            |             |                                    |               | <b>1.81 tons/day</b>   |                       |
|           |             |            |             | <b>If 0.04 ef replaces 0.8 ef:</b> |               |                        |                       |
|           |             |            |             |                                    |               | <b>170.4 tons/year</b> |                       |
|           |             |            |             |                                    |               | <b>0.47 tons/day</b>   |                       |

**Note:** To estimate the emissions resulting from the switch in emission factors (0.8 ==> 0.04), the TOG emissions are multiplied by 0.05 (0.04/0.8 = 0.05).